

A3 reading the log records from a log record file to a log record workspace;

sorting the log records; and

applying the log records to the tablespace backup copy.

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#### REMARKS

Reconsideration of the present application is respectfully requested. By the present amendment, claims 1 and 12 have been amended, claims 7-11 have been canceled without prejudice and claims 17-20 have been added. It is submitted that no new matter and no new issues have been raised by the present amendment.

In the Office Action, claims 1-16 were rejected under 35 U.S.C. 103(a) as allegedly being unaparentable over US Patent No. 5,721,915 (Sokut et al.). Applicant submits that Sokut et al. does not disclose or suggest every element recited in the rejected claims. Sokut et al. appears to disclose the reorganization of a database management system that copies data from old area in a table space to a new area in the table space in a reorganized form.

In contrast, the present application describes various embodiments of systems and methods for recovering a table in a tablespace without having to restore other portions of the tablespace. For example, independent claim 1 recites, inter alia, "the table recovery system restoring a table in the tablespace from the backup copy having log updates without having to restore other portions of the tablespace".

Further, Sokut et al. does not disclose or suggest that a backup copy is updated by having logs applied and that a table

in the tablespace is built with this backup copy, as recited in claim 12.

Accordingly, for at least the reasons set forth above, it is submitted that claims 1-6 and 12-16 define patentable subject matter over the art of record.

Attached hereto is a marked-up version of the changes made to the claims by the current amendment according to 37 C.F.R. §1.121. The attached page is captioned **"Version with markings to show changes made."**

If a telephone interview would be of assistance in advancing prosecution of the subject application, the Examiner is requested to telephone the undersigned at the number provided below.

Respectfully submitted,

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VERSION WITH MARKINGS TO SHOW CHANGES MADE

IN THE CLAIMS:

Please cancel claims 7-11, amend claims 1 and 12, and add claims 17-20 as follows:

1. (Once Amended) A system for recovering a table comprising:

a table recovery system, the table recovery system operable to retrieve a backup copy of a tablespace and to apply updates from a log, the table recovery system restoring a table in the tablespace from the backup copy having log updates without having to restore other portions of the tablespace,

a tablespace access system coupled to the table recovery system, wherein the tablespace access system is operable to restrict access to the tablespace to read-only access.

12. (Once Amended) A method of recovering a first table that depends on a tablespace, said method comprising:

receiving a backup copy of ~~the~~ a tablespace having one or more tables;

reading log records associated with a first table in the one or more tables;

applying the log records to the backup copy;

building new table data pages from the backup copy;

scanning the new table data pages for records of the first table; and

updating the first table from the records.

17. (New) A method for recovering a table that depends on a tablespace, said method comprising:

receiving a backup copy of a tablespace having one or more tables;

reading log records associated with a first table in the one or more tables;

applying the log records to the backup copy;

building one or more table data pages from the backup copy having the log records applied;

selecting one or more records from the one or more table data pages, the one or more records belonging to the first table;

updating the first table with the one more records selected from the one or more table data pages, while allowing access to rest of the one or more tables in the tablespace,

wherein the first table can be recovered without having to recover the tablespace entirely.

18. (New) The method of claim 17, further comprising allowing said at least one of the one or more tables to have update access to the tablespace when the first table is restored.

19. (New) The method of claim 17, further comprising:  
deleting all rows of the first table;  
locking out access to indexes of the first table.

20. (New) The method of claim 17, wherein applying log records to the tablespace backup copy further comprises:

reading the log records from a log record file to a log record workspace;

sorting the log records; and

applying the log records to the tablespace backup copy.